

DRONE RANGERS INDIA PRIVATE LIMITED

Drone Lab, Poornima University, Ramchandrapura P.O. Vidhani Vatika Road Sitapura,
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Drone Survey and Mapping

Enhance your projects with our cutting-edge Drone Survey and Mapping services, delivering precise data and actionable insights for a wide range of industries. Our drone technology revolutionizes surveying by capturing high-resolution data, reducing time, and enhancing accuracy.

Industries We Serve

- Construction
- Mining
- Roadways and Railways
- Oil and Gas
- Power Lines
- Agriculture
- Urban Planning

Orthomosaic Mapping

Our orthomosaic mapping services use drones equipped with high-resolution cameras to capture multiple images from various angles. These images are stitched together to create a detailed, accurate map of the surveyed area. Orthomosaic maps are essential for construction site planning, urban infrastructure projects, and large-scale agricultural field mapping. Orthomosaic maps offer:

- High-resolution imagery for precise measurements
- Accurate representation of land and structures
- Enhanced planning and analysis for construction and urban development

3D Point Cloud

Generate detailed 3D models with our point cloud technology, collecting millions of data points (X, Y, Z coordinates) to create a digital twin of the surveyed site. Key benefits:

- Accurate geometry of terrain and structures
- Seamless integration with CAD software
- Enhanced simulations, modeling, and design accuracy

Digital Terrain Model (DTM)

Our Digital Terrain Models provide an unobstructed view of the Earth's surface, removing buildings, trees,

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and other features to focus solely on natural terrain. DTM services include:

- Elevation data for topographic analysis
- Flood risk assessment and water flow simulations
- Essential data for land use planning and environmental studies

Contour Mapping

With drone-generated contour mapping, we deliver clear, noise-free contour lines for accurate terrain analysis. These maps assist in:

- Identifying land slopes and gradients
- Planning drainage systems and water flow
- Supporting engineering and construction projects

Stockpile Volume Calculation

Accurately measure stockpile volumes with our drone technology, eliminating the guesswork in material estimation. This service supports ore and mineral calculations in mining, raw material estimation in construction, and inventory management in logistics. Our services help with:

- Precise volume calculations for inventory management
- Regular stockpile monitoring and reporting
- Improved cost estimation and project planning

Object Marking

Enhance survey accuracy with drone-based object marking, clearly identifying and tagging important features. This service includes:

- Marking roads, drains, and manholes
- Identifying unwanted objects or obstructions
- Streamlined data for construction and infrastructure projects

Cut/Fill Analysis

Optimize earthworks with our cut/fill analysis, which uses drone data to measure differences in volume between two surfaces. This is essential for excavation planning in construction, resource extraction in mining, and cost estimation in land development. This allows for:

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- Accurate material addition or removal calculations
- Better construction planning and land management
- Cost-effective project execution

Thermal Orthomosaic

Utilizing drones with infrared cameras, we provide thermal orthomosaics to identify heat patterns and detect issues such as pipeline leaks in oil and gas, insulation gaps in construction, and overheated components in power lines. we provide thermal orthomosaics to identify heat patterns and detect issues such as:

- Energy inefficiencies and insulation gaps
- Moisture intrusion and hidden structural damage
- Early detection of building faults for timely maintenance

Contact Us

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